

ABSTRACT OF THE DISCLOSURE

The present invention provides a cell search method that can reduce the power consumption of a mobile station.

5 At a first step, averaging is executed over an averaging time T_1 , and slot boundaries are then detected. Next, as in conventional examples, a second and a third step are serially executed, and the averaging at the first step continues to be executed concurrently with the operation

10 of the second and third steps. Correlation values for slots over an averaging time T_1' are averaged, and the averaging is further executed using an already calculated first-step average correlation value, thereby calculating an average correlation value.